

Rebuilding the Nagle Aqueduct Water Main Pipeline in Durban, South Africa

AVK S.A recently secured an order from Umgeni Water Board, to replace 256 Glenfield wedge gate valves that were installed 30 years ago. The successful production and Supply chain by (Glenfield and AVK Anhui) contributed to the strong alliance; AVK S.A has developed with Umgeni Water Board, the second biggest and best performing Water Board on the African Continent, over the past few years. The efficacious and on time delivery of these valves clearly demonstrated the abilities of AVK to find a solution and deliver a 'one stop shop'.

The Project

Nagle Aqueduct Pipe line supply water to the Durban community on the East Coast of South Africa to more than 3.5 million people. Umgeni Water Board invested over R100million on this project. The investment of R1 billion continue with spending on maintaining water treatment works, waste water works and pumping stations in the Kwazulu Natal Province of South Africa. The work can vary from relatively minor work such as replacing a pump and valves that has reached the life expectancy, to a major refurbishment of a treatment work and new Capital Projects.

In addition to this, the population in the Umgeni Water board region, despite the recent increase in the housing market, is growing fast and this increases the quantity and quality of the drinking water that has to be treated and supplied.

The original 1960's Glenfield Valves

The original valves had come to the end of their asset life and were causing operational concerns. (See image of the original 1960's Glenfield Valves).



The valves were identified as being of Glenfield manufacture and were believed to have been the original valves supplied around 1980's at the time of the original Water infrastructure development project. The Glenfield name synonymous with traditional British valve manufacturing heritage has direct ancestry to AVK S.A today.



AVK S.A was able to utilise excellence in supply and delivery with the support of the AVK Production facilities within the AVK group worldwide in order to manufacture the Series 37 and 54 products ranges for this contract by exceeding the customers' expectations.



AVK S.A subsequently was able to deliver the valves as well as the change flanges and flanged specials to suit the existing dimensions. All parts were supplied with SABS 664 approved coatings and components for use with potable water.



AVK S.A was able to deliver a technical solution, being involved at the early stages of this project presented an opportunity to demonstrate our capabilities in delivering a 'one stop shop' solution. AVK S.A distributes a broad range of products and services for the water and wastewater treatment segments.



AVK valves leads to reduced leakages for customers and therefore saves cost, minimises disruption and reduces energy usage and therefore diminishes the impact upon the environment.

***By Patrick Jantjies (Business Development),
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